

Amendments to the Claims

The following listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) A web server having a user space and adapted to run in a computer system, said computer system including an operating system, a first network interface, and a second network interface, said operating system including a kernel and a protocol stack interfacing with said first network interface, and a file system, space, wherein the user space includes said web server comprising:

an application level layer interpreter, said application layer interpreter being configured to process a client request;

at least one kernel extension device driver, said kernel extension device driver enabling the application level layer interpreter to communicate with a said second network interface to receive the client request; and

a transmission protocol library, said transmission protocol library including protocol stacks including TCP/IP library routines, enabling the web server to process the client request and corresponding response within the user space.

2. (original) The server of claim 1, wherein the interpreter comprises an HTTP interpreter.

3-4. (canceled)

5. (currently amended) The server of claim 1, wherein the library includes only those routines necessary for processing of requests to and responses from the application layer interpreter.

6. (currently amended) The server of claim 1, wherein the web server includes a user space file cache, said file cache enabling said web server to service said client request without invoking said operating system file system.

7. (currently amended) The server of claim 1, wherein the web server is configured to initiate multiple threads within its user space responsive to user requests.

8. (original) The server of claim 7, wherein the threads include threads selected from the group of threads including perl scripts, cgi threads, and Java servlets.

9. (currently amended) A web server computer system comprising:

processor, memory, and input means;

an operating system, said operating system including a kernel, a protocol stack, and a file system;

a web server;

a dedicated network interface in communication with said web server and a general purpose network interface in communication with said operating system;

a user space an application level interpreter in said web server, said application level interpreter being configured to process a client request;

user space kernel extension device drivers in said web server, said kernel extension device drivers enabling the application level interpreter to communicate with the dedicated network interface to receive the client request; and

a user space a protocol library in said web server, said protocol library including a TCP/IP protocol stack separate from the operating system protocol stack, said protocol library TCP/IP protocol stack enabling the web server to perform network processing of the client request and a corresponding response within the user space.

10. (original) The server of claim 9, wherein the interpreter comprises an HTTP interpreter.

11-13. (canceled)

14. (currently amended) The server of claim 9, wherein the web server includes a user space file cache, said file cache enabling said web server to service said client request without invoking said operating system space file system.

15. (currently amended) The server of claim 9, wherein the web server is configured to initiate multiple threads within its user space responsive to user requests.

16. (original) The server of claim 15, wherein the threads include threads selected from the group of threads including perl scripts, cgi threads, and Java servlets.

17-23. (canceled)